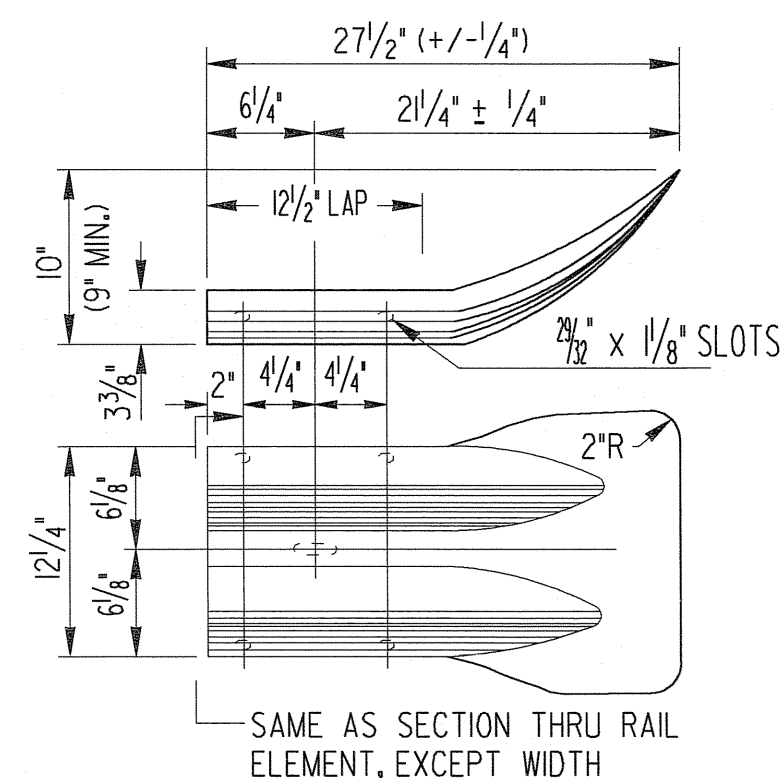
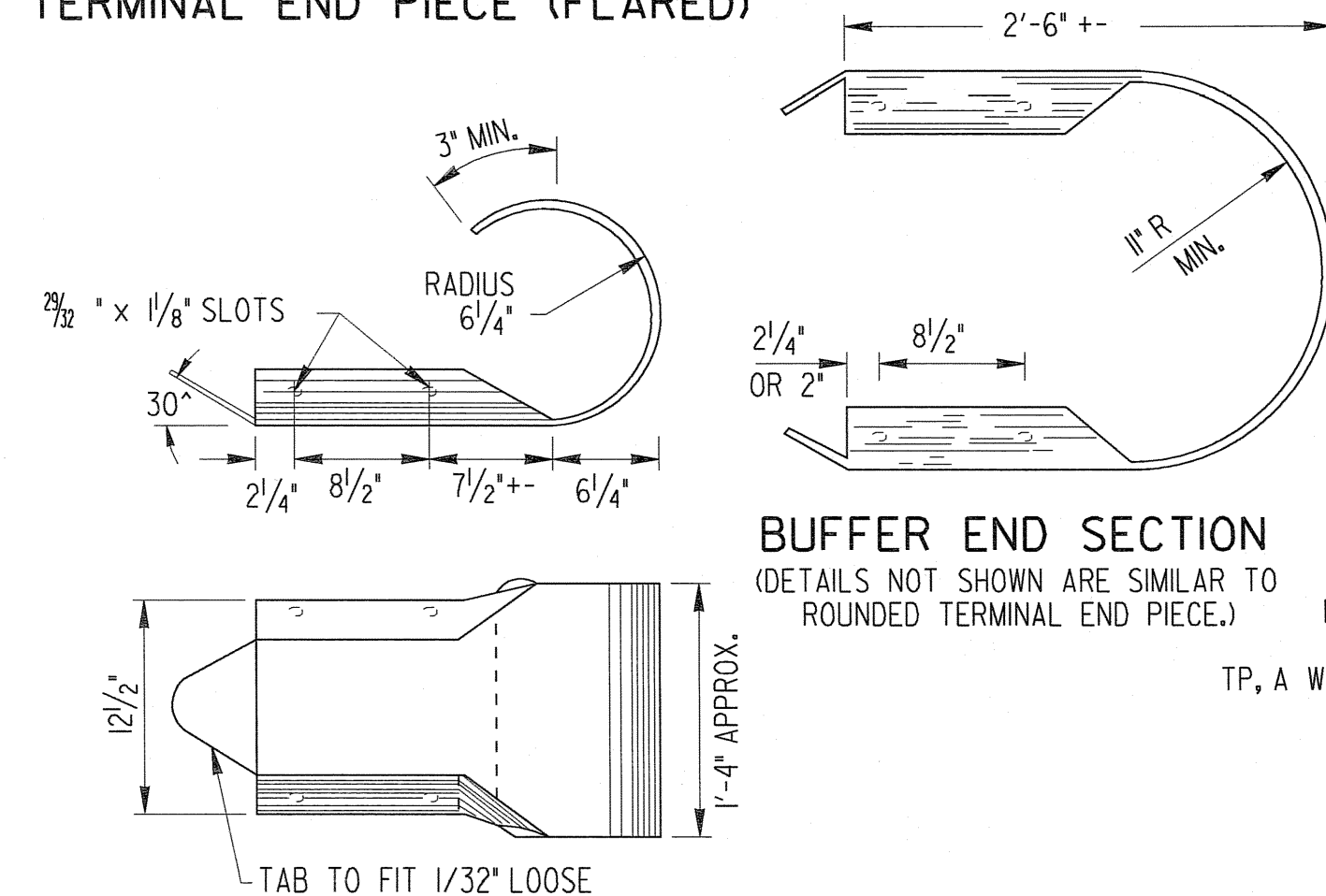


NOTE:
* A PRECURVED GUARDRAIL SECTION WILL BE REQUIRED WHERE TYPE 1 ANCHORAGE IS PERMITTED AT GUARDRAIL TERMINAL IF TRAFFIC FLOW IS TWO-WAY.
SEE APPLICABLE STANDARDS.

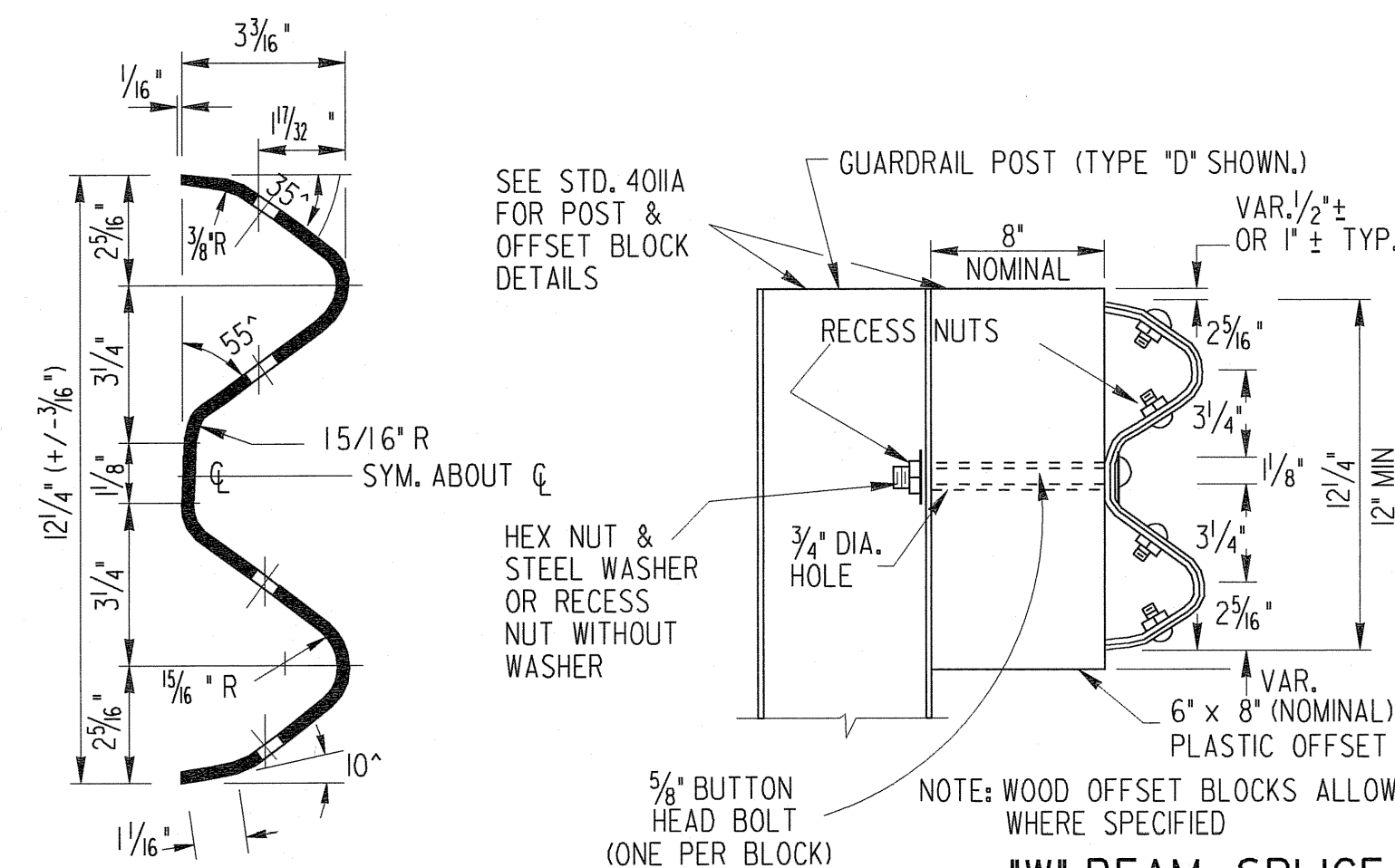
** REDUCED POST SPACINGS WILL BE REQUIRED AT TURNOUTS AROUND RADI, AT REDUCED OFFSETS TO FACE OF FIXED OBJECTS OR AT OTHER SPECIFIED LOCATIONS. SEE PLAN DETAILS OR APPLICABLE STANDARDS. PAYMENT FOR GUARDRAIL WILL INCLUDE THE ADDITIONAL POSTS REQUIRED.



TERMINAL END PIECE (FLARED)



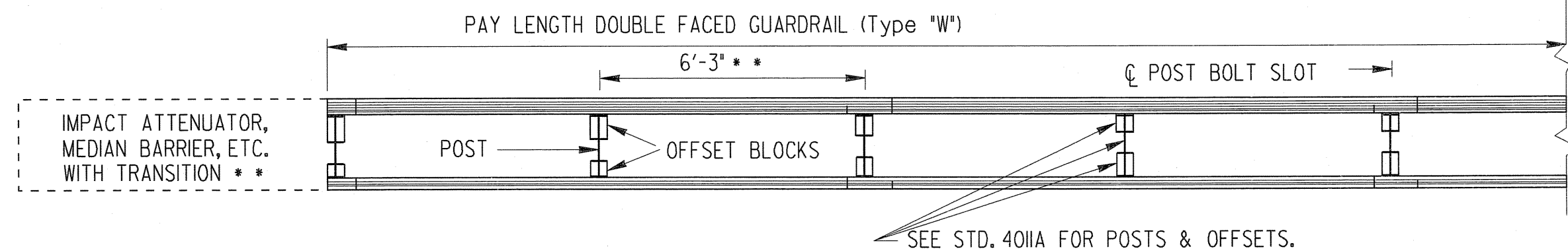
TERMINAL END PIECE (ROUNDED)



W BLAM ST LICE AT POST

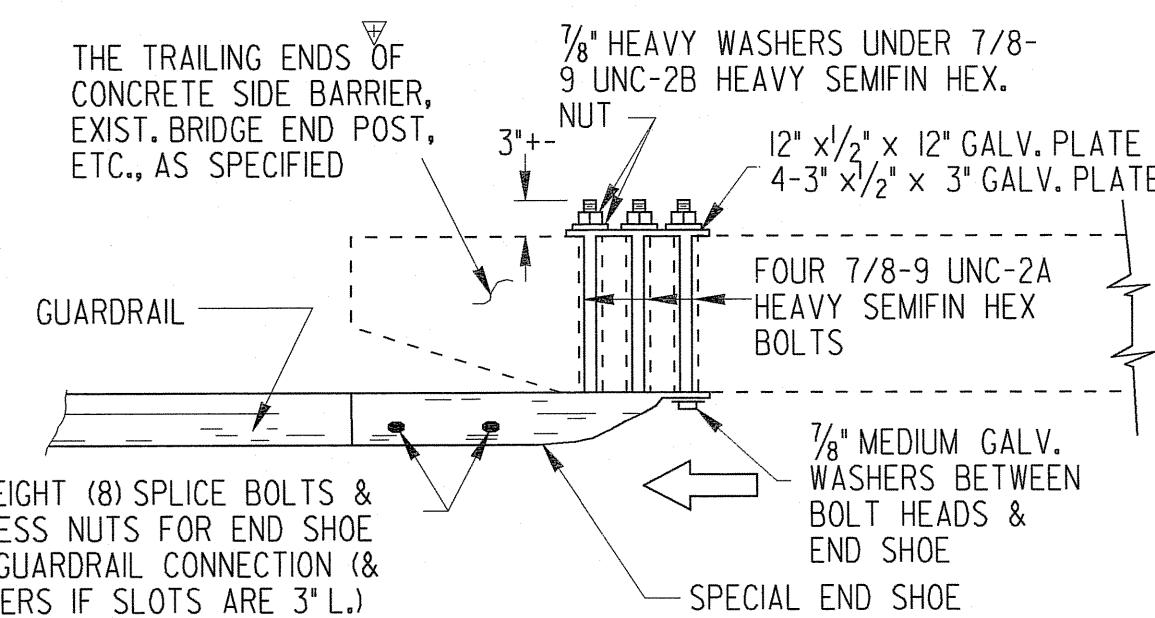
SECTION THROUGH
RAIL ELEMENT

NOTE: OFFSET BLOCKS FOR "W" BEAM GUARDRAIL WILL
BE PLASTIC EXCEPT WHERE SPECIFIED OTHERWISE.



DOUBLE FACED GUARDRAIL (Type "W")

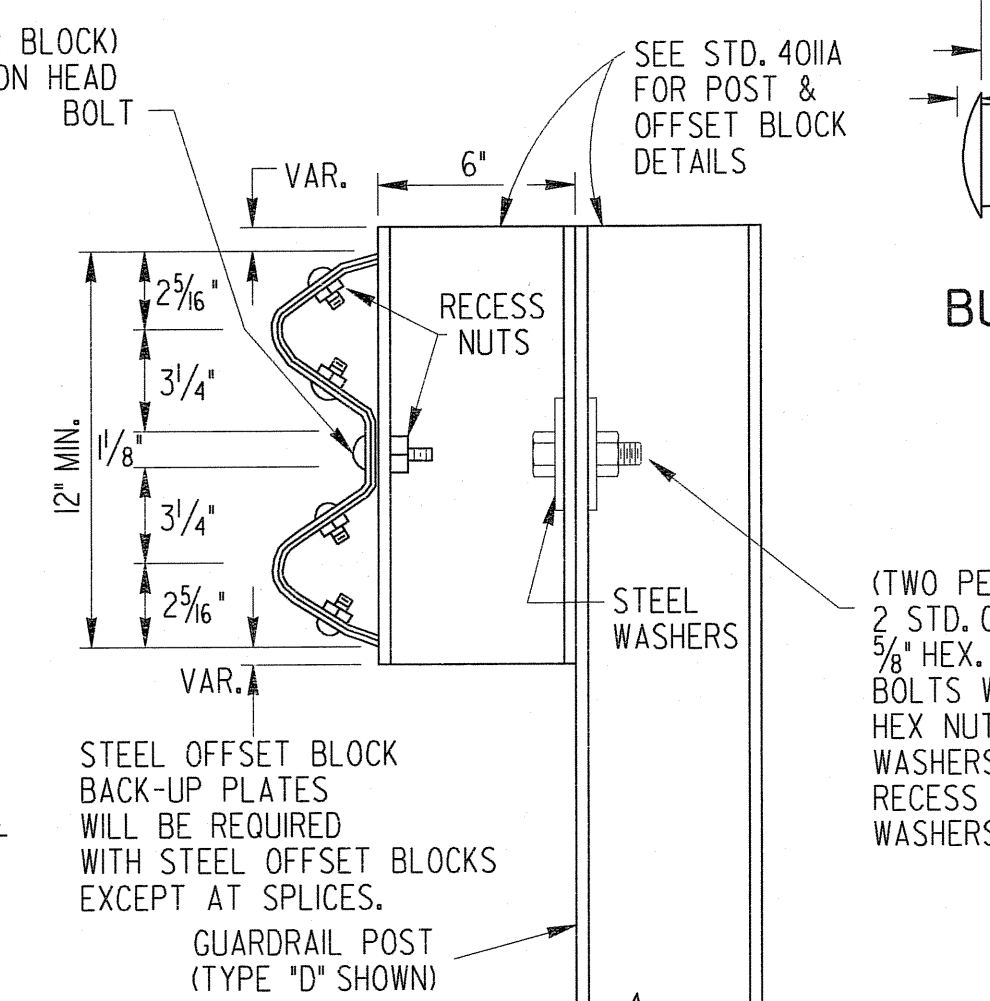
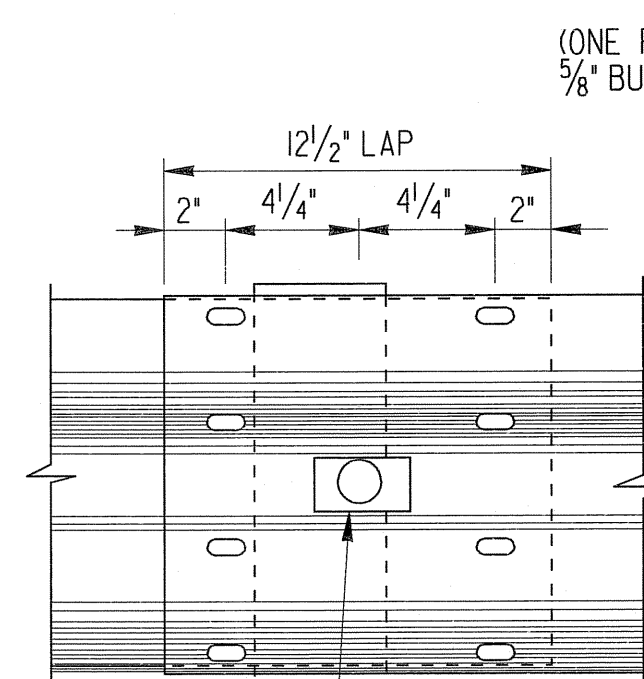
NOTE:
DETAILS FOR DOUBLE FACED GUARDRAIL NOT
SHOWN ARE SIMILAR TO THAT SHOWN FOR
SINGLE FACED RAIL.



TYPICAL END SHOE CONNECTION

NOTE: THE "W" BEAM RAIL ELEMENT/END SHOE SPLICE SHALL BE LAPPED IN THE DIRECTION OF THE NEAREST TRAFFIC.

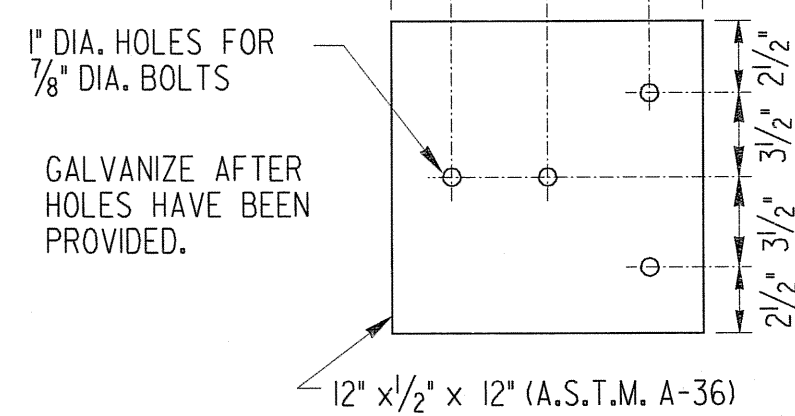
▽ "W" BEAM END CONNECTIONS ARE NOT PERMITTED AT APPROACHES TO CONCRETE STRUCTURES. SEE SEPARATE STANDARDS FOR REQUIRED "T" BEAM CONNECTIONS.



OFFSET BLOCKS ARE NOT PERMITTED
INSTALLATIONS.

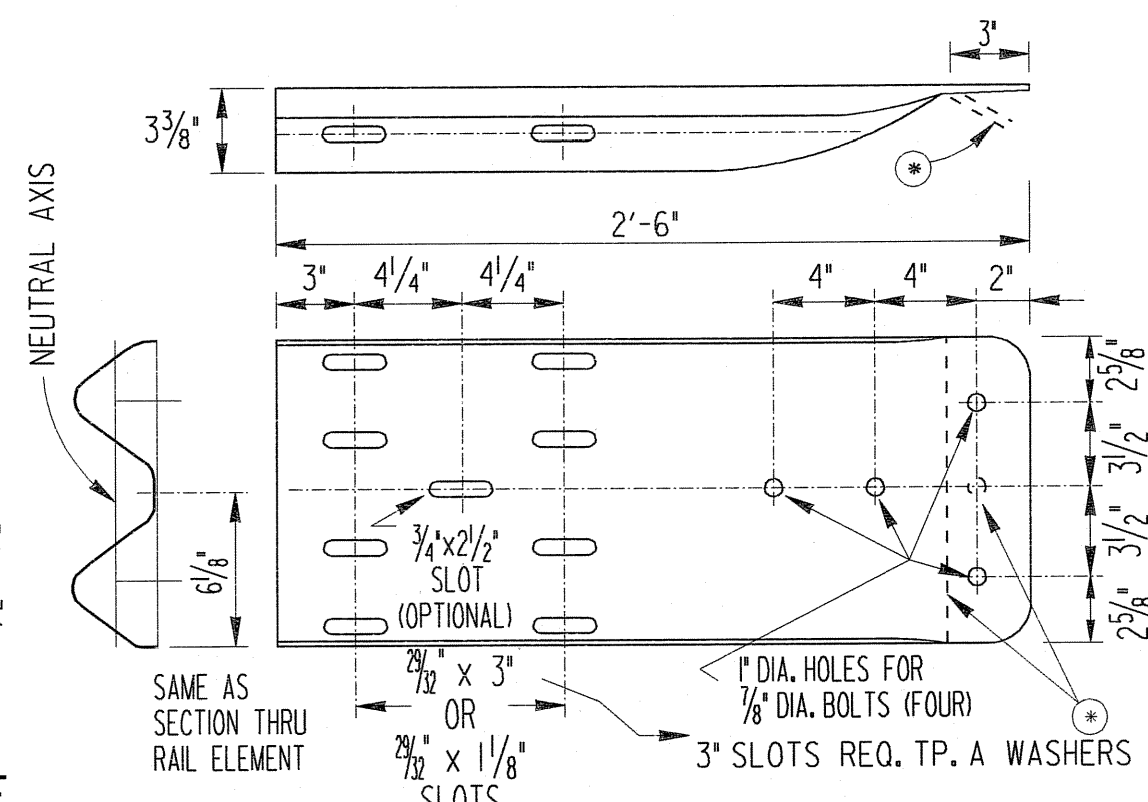
NOTE:
UNLESS SPECIFIED OTHERWISE, ALL
REFERENCES TO GUARDRAIL ON
STANDARDS AND/OR CONSTRUCTION
DETAILS WILL MEAN "W" BEAM GUARD
RAIL AS SHOWN ON THIS STANDARD.

SPECIAL END SHOE WILL BE 10 GAUGE STEEL
GALVANIZED ACCORDING TO A.A.S.H.T.O. M-III



1/2" GALVANIZED STEEL PLATE

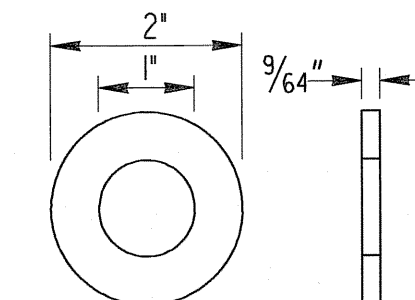
(TO BE USED WITH SPECIAL END SHOE CONNECTION
UNDER NUTS & WASHERS ON BACK OF BRIDGE
END POST OR BACK OF CONCRETE SIDE BARRIER)
(FOUR 3" x 1/2" x 3" GALV. PLATES WITH 1" DIA. HOLE
CENTERED, MAY BE USED AS AN ALTERNATE)



SPECIAL END SHOE DETAIL

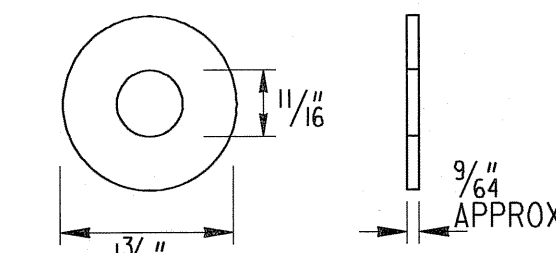
(FOR USE IN CONNECTING GUARDRAIL TO
BRIDGE END POST, CONCRETE BARRIERS, ETC.)

(*) APPLIES ONLY TO END SHOE WITH BUFFERED
END ASSEMBLY OF ANCHORAGE.



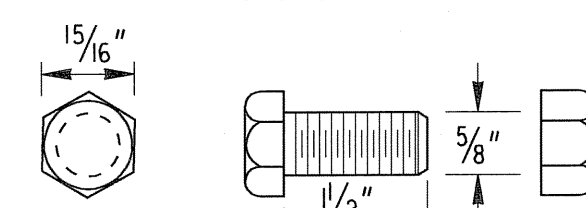
TYPE A WASHER (GALV.)

IF SLOTS IN SPECIAL END SHOE ARE 3" LONG
TP. A WASHERS ARE REQ'D UNDER SPLICE BOLT
HEADS & UNDER NUTS WITH 2" LONG SPLICE BOLTS.
IF END SHOE SLOTS ARE 1 1/8" LONG, USE NORMAL
SPLICE CONNECTIONS



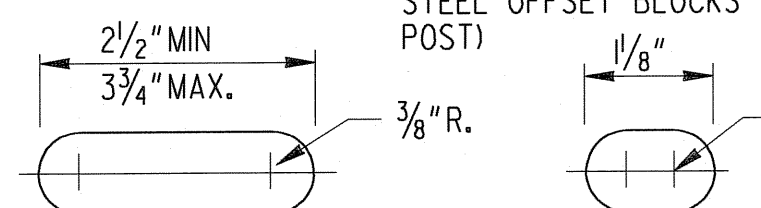
STEEL WASHER (GALV.)

(REQ'D. UNDER 5/8" HEX BOLT
HEADS, UNDER HEX NUTS AND
AS SPECIFIED)

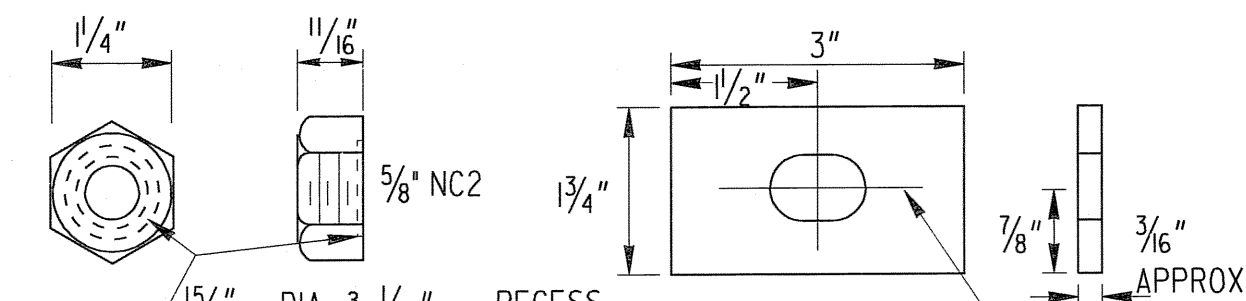


5/8" DIA. HEX BOLT & HEX NUT

(TO BE USED ONLY FOR ATTACHING
STEEL OFFSET BLOCKS TO STEEL
POST) 1/4"



POST BOLT SLOT SPLICE BOLT SLOT



RECESS NUT RECTANGULAR WASHER (GALV.)

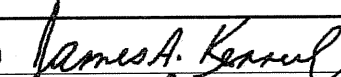

(FOR USE AT TERMINAL POST OR
WHERE SPECIFIED)

BUTTON HEAD (OR
SPLICE) BOLT
(8 REQ'D PER SPLICE)

(TWO PER BLOCK)
2 STD. GALV.
5/8" HEX. HEAD
BOLTS WITH
HEX NUTS & STEEL
WASHERS OR WITH
RECESS NUTS & NO
WASHERS

GENERAL NOTES

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT ARTB A TECHNICAL BULLETIN NO. 268 -- UNLESS SPECIFIED OTHERWISE. DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA. STANDARD 40IIA.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
4. FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
5. ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
6. WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150', PRECURVED RAIL WILL BE REQUIRED.
7. PAYMENT FOR GUARDRAIL (Type "W") TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

			DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
			REVISION	STANDARD "W" BEAM GUARDRAIL	
				NO SCALE	REV. & REDR. MAY, 1999
	BY	DES. RETRACED	(SUBMITTED)	 STATE ROAD & AIRPORT DESIGN ENGR.	
		CHK.	(APPROVED)	 CHIEF ENGINEER	
				NUMBER	4010